

Crina Cojocaru

List of Publications by Year in descending order

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126
papers

1,294
citations

361296

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h-index

395590

33
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126
all docs

126
docs citations

126
times ranked

948
citing authors

#	ARTICLE	IF	CITATIONS
1	Harmonic generation from gold nanolayers: bound and hot electron contributions to nonlinear dispersion. Optics Express, 2021, 29, 8581.	1.7	7
2	Retrieving Linear and Nonlinear Optical Dispersions of Matter: Combined Experiment-Numerical Ellipsometry in Silicon, Gold and Indium Tin Oxide. Frontiers in Photonics, 2021, 2, .	1.1	4
3	Second and third harmonic generation from gold nanolayers: experiment versus theory. EPJ Web of Conferences, 2021, 255, 07003.	0.1	0
4	Defect reconstruction by non-destructive testing with laser induced ultrasonic detection. Ultrasonics, 2020, 101, 106000.	2.1	31
5	Experimental and Theoretical Study of Second Harmonic Generation from an ITO Nanolayer. , 2020, , .		0
6	Directional Ultrasound Source for Solid Materials Inspection: Diffraction Management in a Metallic Phononic Crystal. Sensors, 2020, 20, 6148.	2.1	3
7	Electrodynamics of conductive oxides: Intensity-dependent anisotropy, reconstruction of the effective dielectric constant, and harmonic generation. Physical Review A, 2020, 101, .	1.0	20
8	Study of second and third harmonic generation from an indium tin oxide nanolayer: Influence of nonlocal effects and hot electrons. APL Photonics, 2020, 5, .	3.0	42
9	Spatial filtering in edge-emitting lasers by intracavity chirped photonic crystals. Journal of the Optical Society of America B: Optical Physics, 2020, 37, 2856.	0.9	3
10	Single-shot d-scan technique for ultrashort laser pulse characterization using transverse second-harmonic generation in random nonlinear crystals. Optics Letters, 2020, 45, 3925.	1.7	8
11	Spatial filtering in broad area semiconductor laser using photonic crystal. , 2020, , .		0
12	1 kW CW Fiber-coupled Diode Laser with Enhanced Brightness. , 2020, , .		0
13	1 kW cw fiber-coupled diode laser with enhanced brightness. , 2020, , .		1
14	Second harmonic generation from an ITO nanolayer: experiment versus theory. , 2020, , .		0
15	Spatial Filtering in Broad Area Diode Lasers using Photonic Crystals. , 2019, , .		0
16	Surface and Bulk Harmonic Generation in the Opaque Region of GaAs. , 2019, , .		0
17	Phase Locked Harmonic Generation in the Opaque Region of GaAs. , 2019, , .		0
18	Photonic crystal spatial filtering in broad aperture diode laser. Applied Physics Letters, 2019, 115, .	1.5	17

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19	Fully Noncontact Hybrid NDT for 3D Defect Reconstruction Using SAFT Algorithm and 2D Apodization Window. <i>Sensors</i> , 2019, 19, 2138.	2.1	13
20	Laser Ultrasound Inspection Based on Wavelet Transform and Data Clustering for Defect Estimation in Metallic Samples. <i>Sensors</i> , 2019, 19, 573.	2.1	14
21	Resonant, broadband, and highly efficient optical frequency conversion in semiconductor nanowire gratings at visible and UV wavelengths. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2019, 36, 2346.	0.9	11
22	Harmonic generation in the opaque region of GaAs: the role of the surface and magnetic nonlinearities. <i>Optics Express</i> , 2019, 27, 26120.	1.7	8
23	Vertical emission of second and third harmonic light from GaAs nanowires below the band edge. , 2019, , .		0
24	Surface and bulk harmonic generation in the opaque region of GaAs. , 2019, , .		0
25	Material Defect Reconstruction by Non-Destructive Testing with Laser Induced Ultrasonics. <i>Journal of Physics: Conference Series</i> , 2018, 1149, 012011.	0.3	2
26	Reevaluation of radiation reaction and consequences for light-matter interactions at the nanoscale. <i>Optics Express</i> , 2018, 26, 18055.	1.7	1
27	Comparative analysis of ferroelectric domain statistics via nonlinear diffraction in random nonlinear materials. <i>Optics Express</i> , 2018, 26, 1083.	1.7	5
28	Controllable coherent backscattering of light in disordered media filled with liquid crystal. <i>Optics Letters</i> , 2018, 43, 2300.	1.7	3
29	Harmonic generation from metal-oxide and metal-metal boundaries. <i>Physical Review A</i> , 2018, 98, .	1.0	12
30	The Role of a Discontinuous Free-Electron Density in Harmonic Generation from Metal Surfaces. , 2018, , .		0
31	Analysis of disordered nonlinear domain statistics via second harmonic diffraction. , 2018, , .		0
32	Flat focusing mirrors with two-dimensional chirped photonic crystals. , 2017, , .		0
33	Domain statistics analysis of random nonlinear crystals via second harmonic generation. , 2017, , .		0
34	Analysis of domain statistics of disordered structures via second harmonic diffraction. , 2017, , .		0
35	Transverse single-shot cross-correlation scheme for laser pulse temporal measurement via planar second harmonic generation. <i>Optics Express</i> , 2016, 24, 22210.	1.7	12
36	Transverse cross-correlation scheme for pulse shape measurement in random nonlinear crystals. , 2016, , .		1

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37	Two-dimensional domain structures in Lithium Niobate via domain inversion with ultrafast light. Photonics Letters of Poland, 2016, 8, .	0.2	0
38	Ferroelectric domain engineering by focused infrared femtosecond pulses. Applied Physics Letters, 2015, 107, .	1.5	74
39	Flat Focusing Mirror. Scientific Reports, 2015, 4, 6326.	1.6	25
40	Controllable light diffraction in woodpile photonic crystals filled with liquid crystal. Applied Physics Letters, 2015, 106, 021113.	1.5	21
41	Ultrashort pulse chirp measurement via transverse second-harmonic generation in strontium barium niobate crystal. Applied Physics Letters, 2015, 106, .	1.5	13
42	Ultrashort pulse chirp measurement via transverse second-harmonic generation in random nonlinear crystals. , 2015, , .		1
43	Flat focusing mirrors. , 2015, , .		0
44	Beam focalization in reflection from flat dielectric subwavelength gratings. Optics Letters, 2014, 39, 6086.	1.7	18
45	Beam focalization by chirped mirrors. , 2014, , .		0
46	Diffraction control of reflected beam by chirped mirror. , 2013, , .		0
47	Flat lensing in the visible frequency range by woodpile photonic crystals. Optics Letters, 2013, 38, 2376.	1.7	60
48	Managing light in nonlinear disordered media. , 2013, , .		0
49	Beam focusing in reflection from flat chirped mirrors. Physical Review A, 2013, 87, .	1.0	15
50	Unified approach to Åerenkov second harmonic generation. Optics Express, 2013, 21, 25715.	1.7	26
51	Type I and type II second harmonic generation of conically refracted beams. Optics Letters, 2013, 38, 2484.	1.7	9
52	Focusing by a flat woodpile 3D photonic crystal. , 2013, , .		0
53	Focussing by a flat woodpile 3D photonic crystal. , 2013, , .		0
54	Near field focusing of beams reflected by flat mirror. , 2013, , .		0

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55	Manifestation of spatial filtering performed by 3D photonic crystals. Proceedings of SPIE, 2012, , .	0.8	0
56	Multi-directional Åerenkov second harmonic generation in two-dimensional nonlinear photonic crystal. Optics Express, 2012, 20, 3948.	1.7	6
57	Theoretical study of Åerenkov-type second-harmonic generation in periodically poled ferroelectric crystals. Journal of the Optical Society of America B: Optical Physics, 2012, 29, 312.	0.9	32
58	Woodpile photonic crystal for beam collimation. , 2012, , .		0
59	Collimation and imaging behind a woodpile photonic crystal. , 2012, , .		0
60	Formation of collimated beams behind the woodpile photonic crystal. Physical Review A, 2011, 84, .	1.0	44
61	Enhanced efficiency of the second harmonic inhomogeneous component in an opaque cavity. Optics Letters, 2011, 36, 1809.	1.7	9
62	Tailoring Åerenkov second-harmonic generation in bulk nonlinear photonic crystal. Optics Letters, 2011, 36, 2593.	1.7	22
63	Efficient generation of the second harmonic inhomogeneous component in opaque cavities. , 2011, , .		0
64	Three dimensional Woodpile Photonic Crystal for collimation of light beams. , 2011, , .		0
65	Broad spectral range phase matched second harmonic generation in sub-diffractive two-dimensional photonic crystals. , 2011, , .		0
66	Vertically confined phase matched second harmonic generation in sub-diffractive planar two-dimensional photonic crystals. , 2011, , .		0
67	roadband phase-matched second-harmonic generation for narrow beams in planar two-dimensional photonic crystals. , 2010, , .		0
68	Lossless backward second-harmonic generation of extremely narrow subdiffractive beams in two-dimensional photonic crystals. Physical Review A, 2010, 82, .	1.0	5
69	Broad angle phase matching in subdiffractive photonic crystals. Optics Communications, 2010, 283, 3533-3535.	1.0	5
70	Second-Harmonic Generation in Disordered Quadratic Media: Role of a Ferroelectric Domain Structure. , 2010, , .		0
71	Signatures of light-beam spatial filtering in a three-dimensional photonic crystal. Physical Review A, 2010, 82, .	1.0	53
72	Second and third harmonic generation in disordered quadratic nonlinear media: Application to short-pulse characterization. , 2010, , .		0

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73	Second-harmonic generation in disordered quadratic media: Role of a ferroelectric domain structure. , 2010, , .		0
74	Second- and third-harmonic parametric scattering in disordered quadratic media. Journal of Physics B: Atomic, Molecular and Optical Physics, 2010, 43, 215404.	0.6	12
75	Cavity behavior of second and third harmonic inhomogeneous solutions of Maxwell's equations. Waves in Random and Complex Media, 2010, 20, 319-331.	1.6	4
76	The role of ferroelectric domain structure in second harmonic generation in random quadratic media. Optics Express, 2010, 18, 4012.	1.7	24
77	Second harmonic generation in a generic negative index medium. Journal of the Optical Society of America B: Optical Physics, 2010, 27, 1671.	0.9	16
78	Phase Locked Second Harmonic Efficiency in Opaque Cavity Environment. , 2010, , .		1
79	Broadband Third Harmonic Generation in Quadratic Media with Disordered Ferroelectric Domains. , 2010, , .		0
80	Cascaded Third Harmonic Generation in Random Media. , 2010, , .		0
81	Field localization and enhancement of phase-locked second- and third-order harmonic generation in absorbing semiconductor cavities. Physical Review A, 2009, 80, .	1.0	25
82	Second harmonic generation of narrow beams in subdiffractive photonic crystals. , 2009, , .		1
83	Characterization of femtosecond pulses via transverse second-harmonic generation in random nonlinear media. Applied Physics B: Lasers and Optics, 2009, 95, 609-615.	1.1	18
84	Phase matched second harmonic generation in planar two-dimensional photonic crystals. Journal of Optics, 2009, 11, 114016.	1.5	4
85	Third-harmonic generation via broadband cascading in disordered quadratic nonlinear media. Optics Express, 2009, 17, 20117.	1.7	33
86	Phase locked harmonics etalon localization in opaque materials. , 2009, , .		0
87	Second harmonic generation in planar two-dimensional photonic crystals without out-of-plane losses. , 2009, , .		0
88	Phase locked harmonic localization and enhancement in an absorbing semiconductor cavity. Proceedings of SPIE, 2009, , .	0.8	0
89	Femtosecond Pulse Duration Measurements By Transverse Second Harmonic Generation In Random Nonlinear Media. , 2009, , .		1
90	The Effect of Domain Distribution on Second Harmonic Generation in Disordered Nonlinear Media. , 2009, , .		0

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91	The Role of the Phase Locking Phenomenon in the Second and Third Harmonics Cavity Localization. , 2009, , .		0
92	Planar second-harmonic generation with noncollinear pumps in disordered media. Optics Express, 2008, 16, 14192.	1.7	40
93	Second-harmonic generation of narrow beams in subdiffractive photonic crystals. Physical Review A, 2008, 78, .	1.0	18
94	Broadband second harmonic parametric scattering in ferroelectric crystals with random domains structure. , 2008, , .		0
95	Second harmonic generation of narrow beams in subdiffractive photonic crystals. , 2008, , .		3
96	Reconstruction of Short Pulses via Transverse Second-Harmonic Generation in Disordered Media. , 2008, , .		0
97	Ultra-fast Optical Reconfiguration via Nonlinear Effects in Semiconductor Photonic Crystals. , 2008, , 79-96.		0
98	Subdiffractive pulses in photonic crystals. , 2007, , .		0
99	Optical Parametric Amplification of Narrow Beams under Subdiffractive Propagation in Photonic Crystals. , 2007, , .		0
100	Efficient parametric amplification of narrow beams in photonic crystals. Optics Letters, 2007, 32, 1992.	1.7	20
101	Second-harmonic parametric scattering in ferroelectric crystals with disordered nonlinear domain structures. Optics Express, 2007, 15, 15868.	1.7	62
102	Towards observation of sub-diffractive pulse propagation in photonic crystals. Optics Communications, 2007, 279, 377-383.	1.0	3
103	Actively Induced Reflection via a Quadratic Nonlinear Optical Interaction in a Semiconductor Photonic Crystal: Application to Ultra Fast All-Optical Modulation and Switching. , 2006, , .		0
104	Subdiffractive Pulses in Photonic Crystals. , 2006, , .		0
105	Subdiffractive light pulses in photonic crystals. Physical Review E, 2006, 74, 016605.	0.8	16
106	Nonadiabatic Dynamics of the Electromagnetic Field and Charge Carriers in High-Q Photonic Crystal Resonators. Physical Review Letters, 2006, 96, 093901.	2.9	28
107	Room-temperature simultaneous in-plane and vertical laser operation in a deep-etched InP-based two-dimensional photonic crystal. IEE Proceedings: Optoelectronics, 2005, 152, 86.	0.8	3
108	Optical amplification in two-dimensional photonic crystals. Applied Physics Letters, 2005, 86, 091111.	1.5	13

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109	Tuning a two-dimensional photonic crystal resonance via optical carrier injection. Optics Letters, 2005, 30, 64.	1.7	47
110	Subdiffractive Pulses in Photonic Crystals. , 2005, , .		0
111	Ultrafast dynamics of the third-order nonlinear response in a two-dimensional InP-based photonic crystal. Applied Physics Letters, 2004, 85, 1880-1882.	1.5	73
112	Multifunction operation in two-dimensional semiconductor photonic crystal slabs. , 2004, , .		1
113	Nonlinear optical manipulation of Fano resonances in 2d photonle crystal slabs. , 2003, , .		1
114	Nonlinear optical manipulation of Fano resonances in 2D photonic crystal slabs. , 2003, , .		0
115	Induced group and phase velocity changes by a cascaded quadratic nonlinear interaction within a one-dimensional photonic crystal. Journal of the Optical Society of America B: Optical Physics, 2002, 19, 2141.	0.9	6
116	Low-intensity optical bistability in an active Fabry-Perot mirror induced by input-phase-insensitive parametric downconversion. Applied Optics, 2002, 41, 2935.	2.1	0
117	Determination of refractive indices of quarter-wavelength Bragg reflectors by reflectance measurements in wavelength and angular domains. Applied Optics, 2002, 41, 5172.	2.1	3
118	Actively induced transmission via a quadratic nonlinear optical interaction in a potassium titanyl phosphate microcavity. Applied Physics Letters, 2001, 79, 4479-4481.	1.5	5
119	Quadratic Nonlinear Interactions in 1-Dimensional Photonic Crystals. , 2001, , 577-587.		0
120	Second-order optical nonlinearity generated by doping the surface layer of silica with anions or cations. Journal of Applied Physics, 2000, 88, 4666.	1.1	4
121	Active reflection via a phase-insensitive quadratic nonlinear interaction within a microcavity. Applied Physics Letters, 1999, 74, 504-506.	1.5	16
122	Observation of azimuthal modulational instability and formation of patterns of optical solitons in a quadratic nonlinear crystal. Optics Letters, 1998, 23, 1444.	1.7	125
123	Observation of azimuthal modulation instability and formation of patterns of optical solitons in a quadratic crystal:errata. Optics Letters, 1998, 23, 1787.	1.7	7
124	Nondiffractive propagation of light in photonic crystals. , 0, , .		2
125	All-optical controlled multifunction operation in two-dimensional photonic crystals. , 0, , .		0
126	Wavelet Transform Applied to Internal Defect Detection by Means of Laser Ultrasound. , 0, , .		3